State Geological Survey
WICHITA, BRANCH

IMPORTANT
Kans. Geo. Survey request samples on this well.

KANSAS DRILLERS LOG

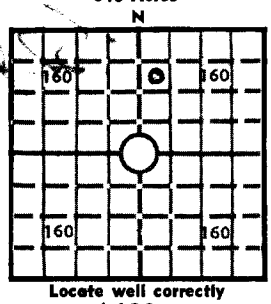
S. 1 T. 31 R. 8 E/W

API No. 15 — 077 (County) — 20,279 (Number)

Loc. SW NW NE

County Harper

640 Acres



Locate well correctly

Operator: Pickrell Drilling Co. & Barbara Oil

Address: 705 Fourth National Bank Building Wichita, Kansas

Well No.	Lease Name
#1	Wolf "D"

Footage Location: feet from (N) (S) line — feet from (E) (W) line

Principal Contractor	Geologist
PICKRELL DRILLING COMPANY	Douglas McGinness

Spud Date	Total Depth	P.B.T.D.
September 10, 1974	4789	

Date Completed	Oil Purchaser
October 12, 1974	

Elev.: Gr. 1629

DF 1631 KB 1634

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
		8 5/8		207'	Common	175	
		4 1/2		4478	Common	125	

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8	4419	

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
2	DP jet	4393-4396

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
150 gal (15%) 500 gal GSW Pad, 1500 gal GSW with 750# (20-40) sand, flush with 3700 gal. SW	4393-4396

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)
October 11, 1974	

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	26.67 bbls.	140 MCF	27.50 bbls.	5158 CFPB

Disposition of gas (vented, used on lease or sold):

Producing interval(s): 4393-4396

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator	DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
PICKRELL DRILLING COMPANY	
Well No. #1 / **Lease Name** Wolf"D"	Oil
S 1 T 31 R 8W E W	

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Top soil	0	55		
Sand	55	85		
Shale	85	100		
Shale	100	600		
Shale	600	1540		
Lime	1540	1750		
Lime	1750	1940		
Lime & Shale	1940	1965		
Lime & Shale	1965	2400		
Shale & Lime	2400	2665		
Shale & Lime	2665	2875		
Shale & Lime	2875	3060		
Lime & Shale	3060	3290		
Lime & Shale	3290	3420		
Shale & Lime-Sand	3420	3555		
Shale	3555	3626		
Shale & Lime	3626	3685		
Lime	3685	3779		
Lime	3779	3880		
Lime	3880	3890		
Lime & Shale	3890	3955		
Lime & Shale	3955	4010		
Shale & Lime	4010	4055		
Lime	4055	4120		
Lime & Shale	4120	4200		
Shale & Lime	4200	4285		
Lime & Shale	4285	4340		
Lime & Shale	4340	4391		
Miss. Chert.	4391	4404		
~~Miss.~~	~~4404~~	~~4419~~		
Miss.	4419	4455		
Chert. & Shale & Lime	4455	4539		
Lime	4539	4565		
Lime & Shale	4565	4615		
Lime & Shale	4615	4715		
Shale & Lime	4715	4765		
Lime	4765	4772		
Sand & Shale	4772	4789		

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

RECEIVED FEB 1975 STATE GEOLOGICAL SURVEY OF KANSAS

Date Received

C. W. Sebits
Signature

Partner
Title

1-27-75
Date

cor PICKRELL DRILLING COMPANY

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil

Well No. #1 | Lease Name Wolf "D"

S 1 T 31R 8W E W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH

Page 2.

DST #1

3997-4010 30-30-90-60 Fair blow Rec. 420'
GIP 60' Very Slightly Oil Cut Muddy Wtr.
IFP 20-20 ISIP 1158#/30" FFP 30-50
FSIP 1460#/60" Stark Shale 4015 (-2381)

DST #2

4392-4404 30-30-90-60 GTS 14" Gauged26 MCFG/30" 2nd open gaughed 41 MCFG/10", Gauged 34 MCFG/20" and stabilized Rec. 270' Gsy muddy oil, 60' sl. oil cut wtr. IFP 52-83 ISIP 1388#/30" FFP 104-146 FSIP 1420#/60" Circ. at 4419

DST #3

4406-4419 GTS 70" 60' Gas Cut Hvy Oil Cut muddy wtr. 240' wtr. IFP 53-73 ISIP 1336# FFP 94-188 FSIP 678?

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received

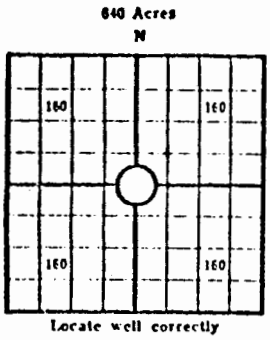
Signature

Title

Date

. to Kansas Geological Survey, 4150 Monroe Street, Wichita, Kansas 67209)

API# 15-077-20,279 1-31-8W



Lease Name: WOLF "D" Well No. #1
Well Located: SW NW NE
HARPER COUNTY SEC 1 TWP 31 RGE 8W
Operator: PICKRELL DRILLING CO. & BARBAR OIL COMPANY
Address: 705 FOURTH NAT'L BANK BLDG. WICHITA, KS. 67202
Elevation: Ground 1629 D.F. 1631 K.B. 1634
Type Well: (Oil, gas, dry hole) OIL

Drilling Commenced: 9-10 19 74 Drilling Completed: 9-22 19 74
Well Completed: 10-12 19 74 Total Depth 4789
Initial Production:

Casing Record

Size: 8 5/8" Set at 207' Size: Set at
Size: 4½" Set at 4478 Size: Set at

Liner Record

Size: Set from To



Cementing

Casing Size	Sacks	Type Cement and Additives
8 5/8"	175	Common
4½"	125	

Perforations

Formation	Perforated Interval and Number Shots
Miss.	4393-4396 2 2/DP jet/ft.

Electric Log Run (Show type log and depths covered)

Gamma Neuton Guard Caliper from 207 to 4789.

(Fill in formation and related information on reverse side)

Formation	Top	Bottom	Production Tests
			1-31-8w
Top soil.	0	55	
Sand	55	85	
Shale	85	100	
Shale	100	600	
Shale	600	1540	
Lime	1540	1750	
Lime	1750	1940	
Lime & Shale	1940	1965	
Lime & Shale	1965	2400	
Shale & Lime	2400	2665	
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Lime	4765	4772	
Snad & Shale	4772	4789	